

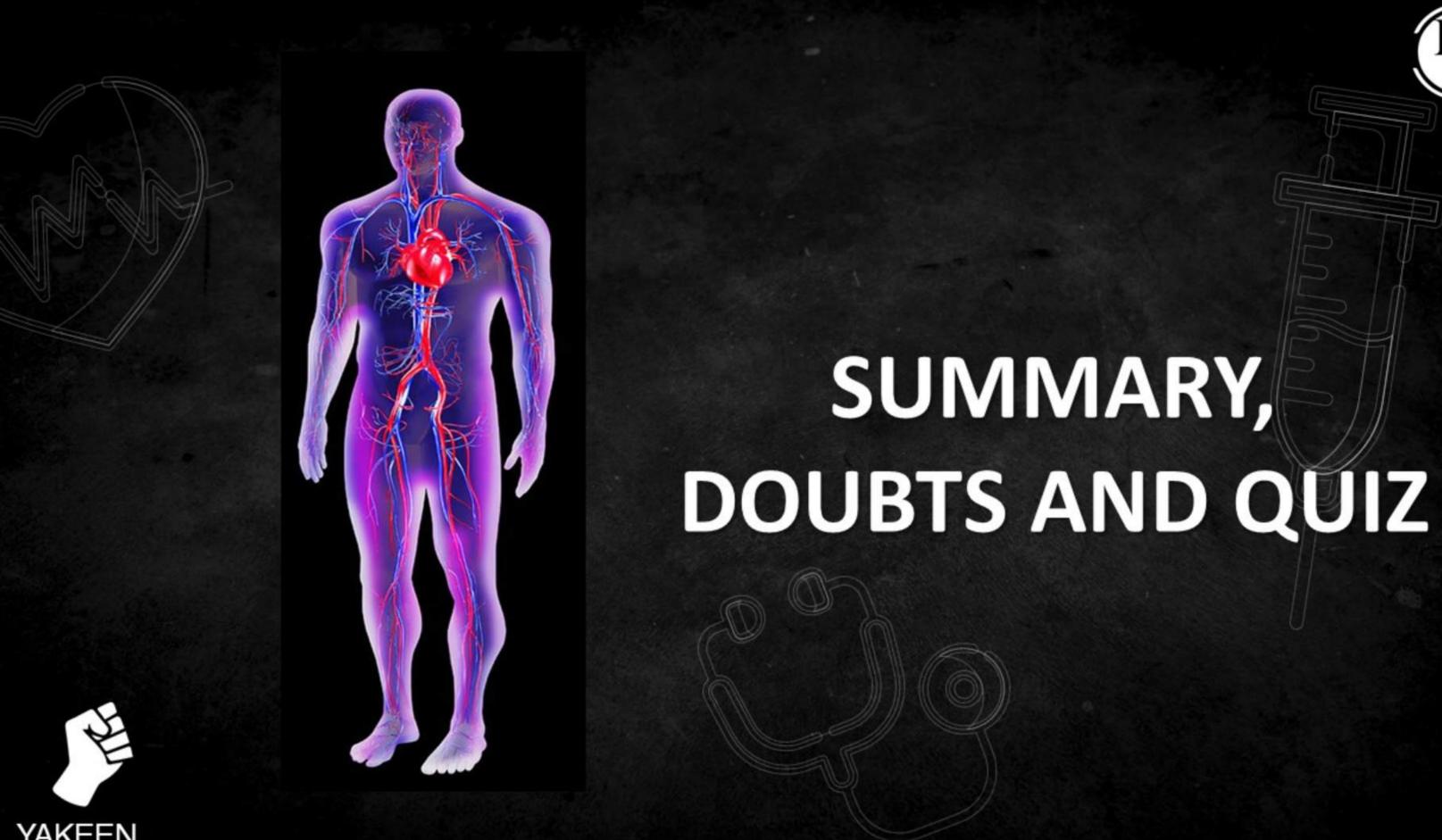


YAKEEN Summary, Doubts and Quiz

BODY FLUIDS AND CIRCULATION



BY 'DR. MANISH DUBEY'





SUMMARY PART-1 BLOOD

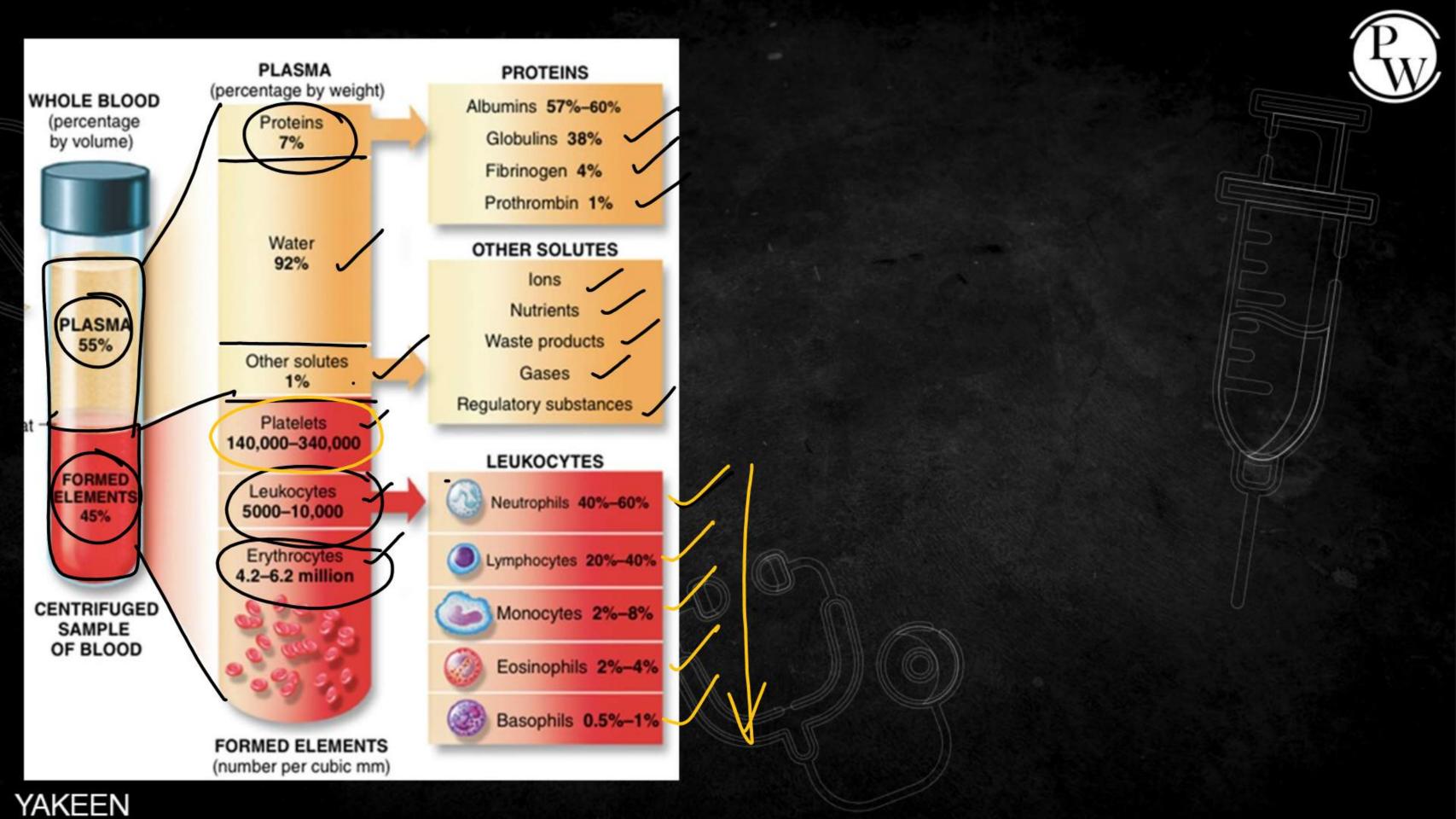
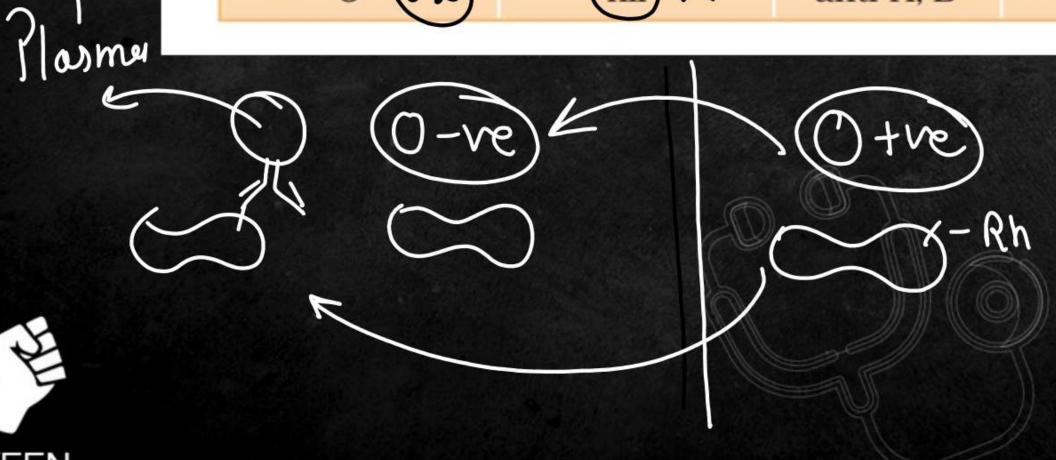


TABLE 18.1 Blood Groups and Donor Compatibility

Blood Group	Antigens on RBCs	Antibodies in Plasma	Donor's Group
A	A 🗸	anti-B	(A) (b)
В	в 🗸	anti-A✓	B O
AB U.R.	A, B 🗸	nil X	\ \(\text{AB} \(\text{A} \(\text{B} \(\text{A} \) \(\text{A} \) \(\text{B} \(\text{A} \)
(a.v) 0 ~	nil ×	anti-A, B✓	(O)

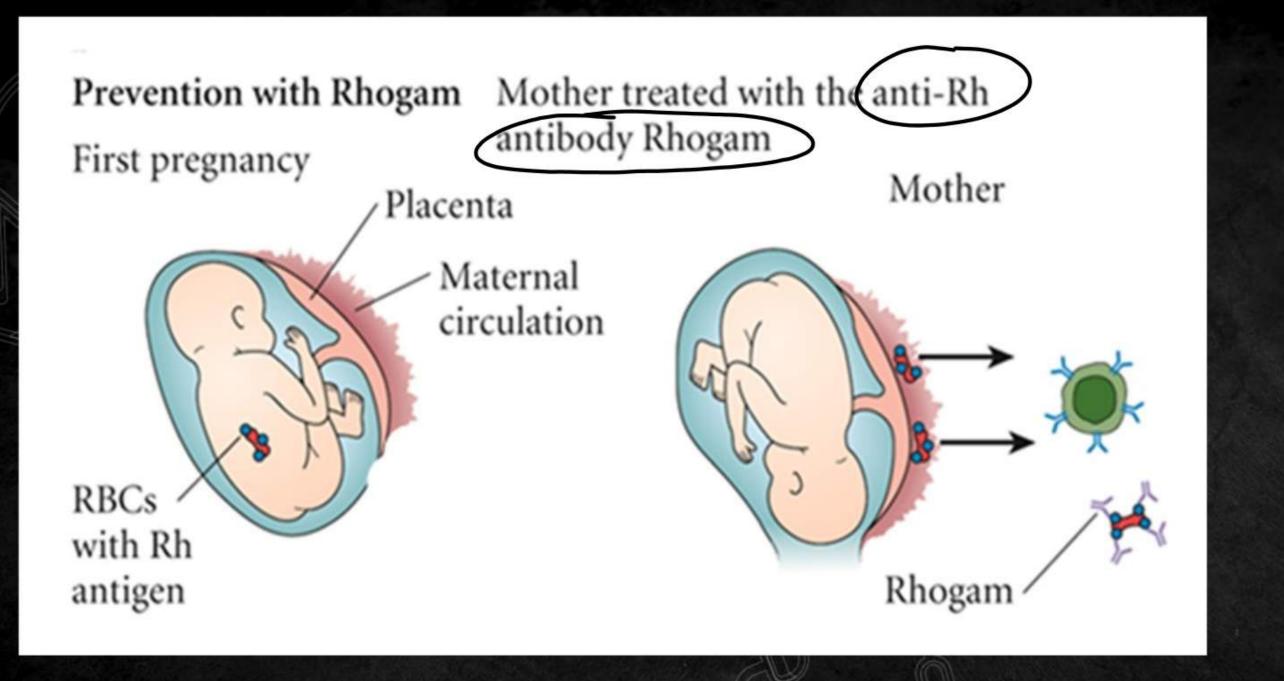


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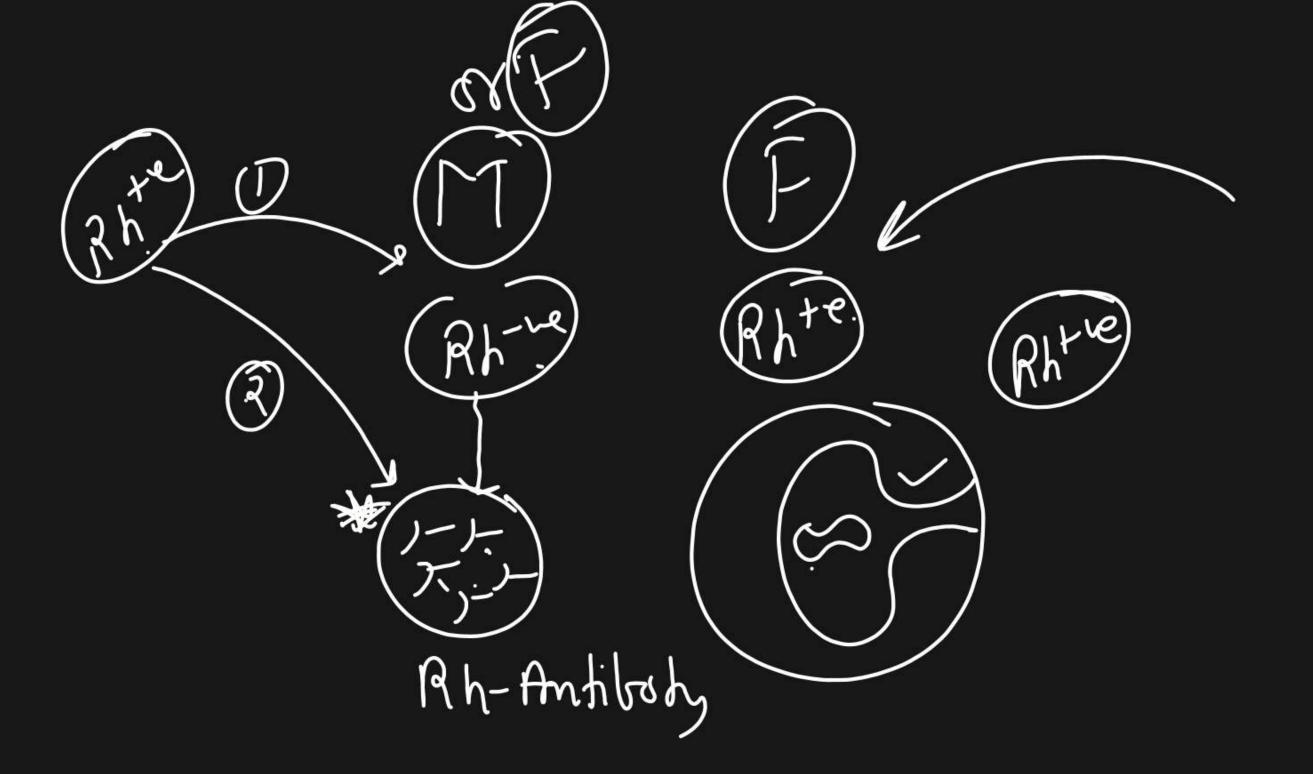
Erythroblastosis fetalis First pregnancy Mother Placenta Plasma cells Maternal circulation Anti-Rh **RBCs** Rh-specific with Rh B cell Memory cell antigen Second pregnancy Plasma cells Memory cell 7 Anti-Rh IgG

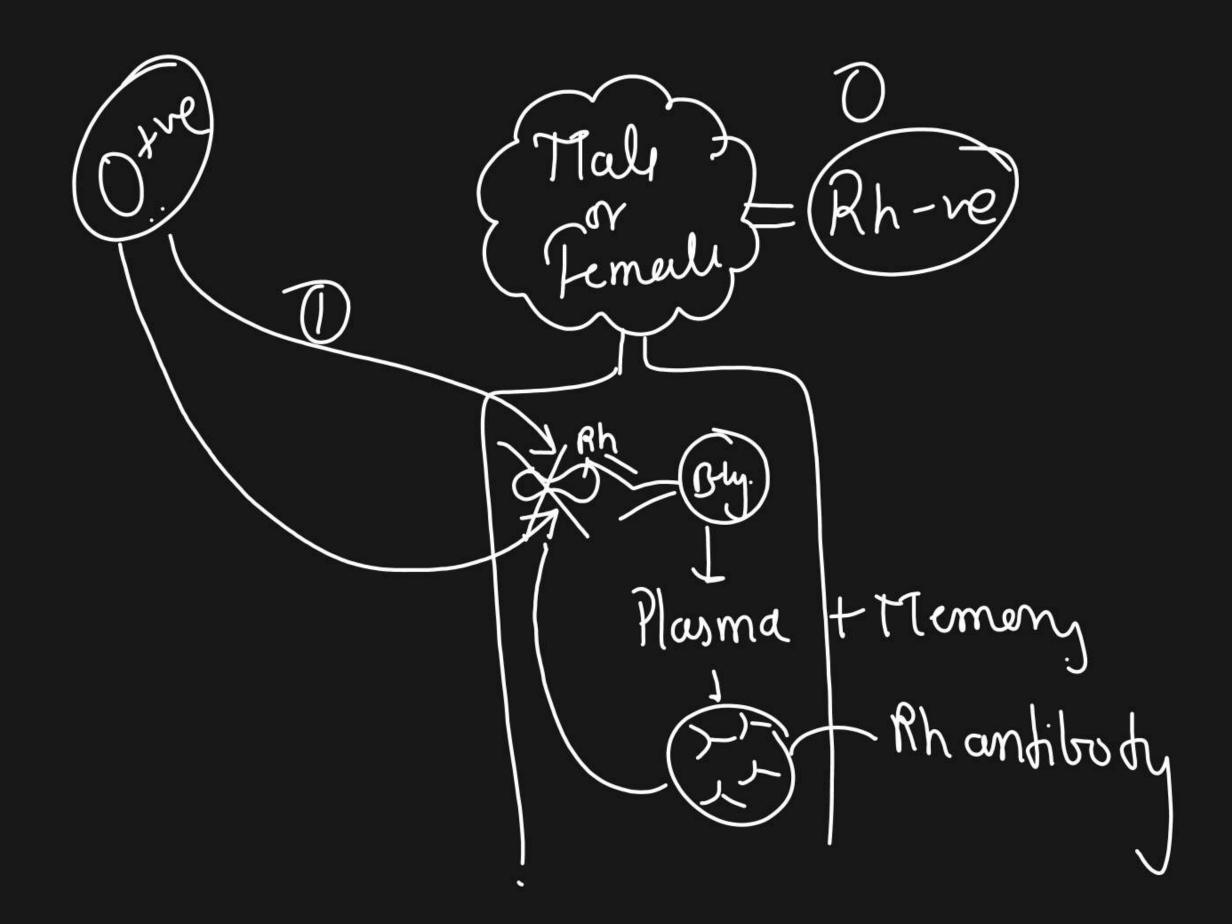
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Doubts

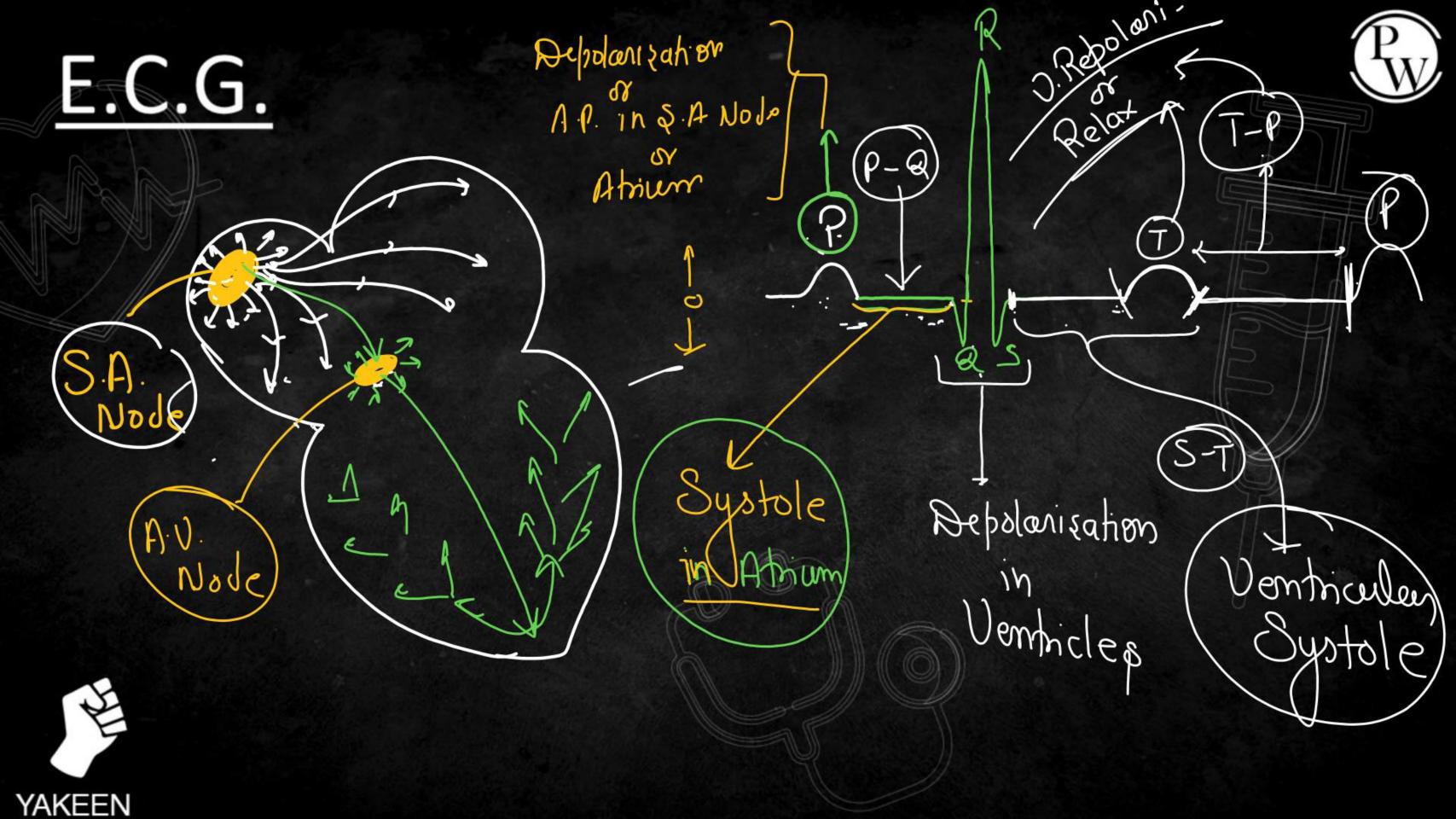
and Discussion

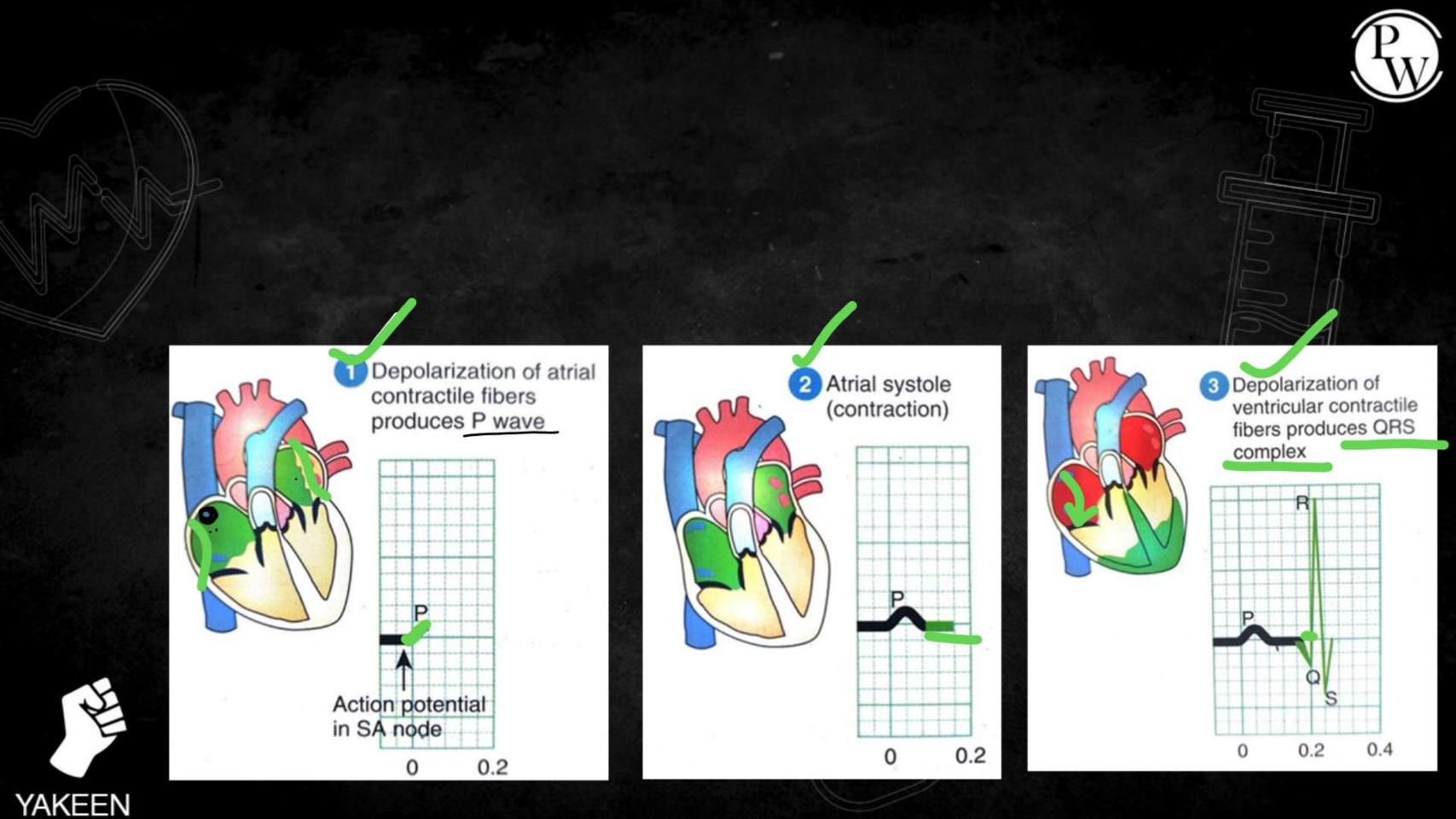


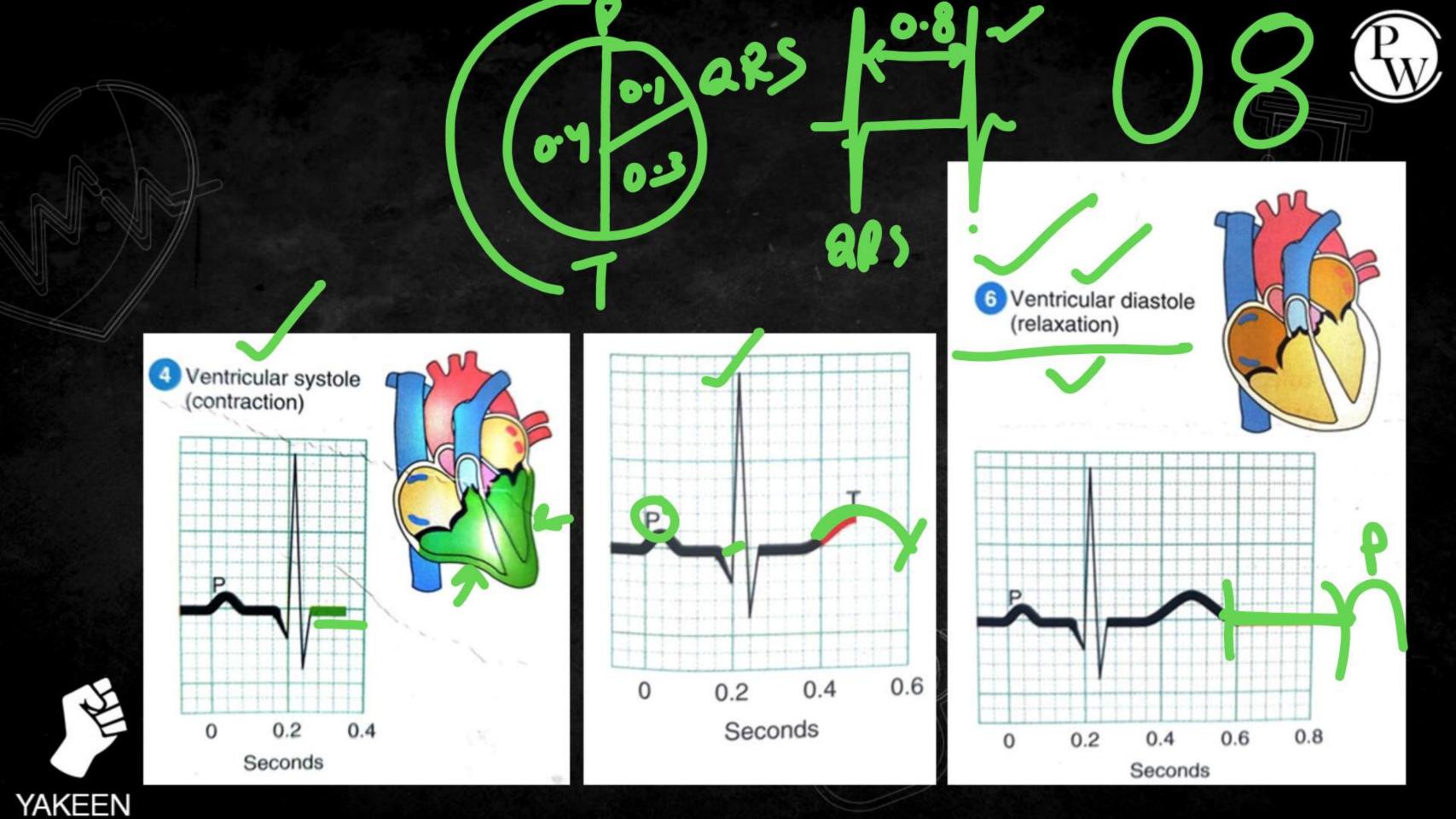


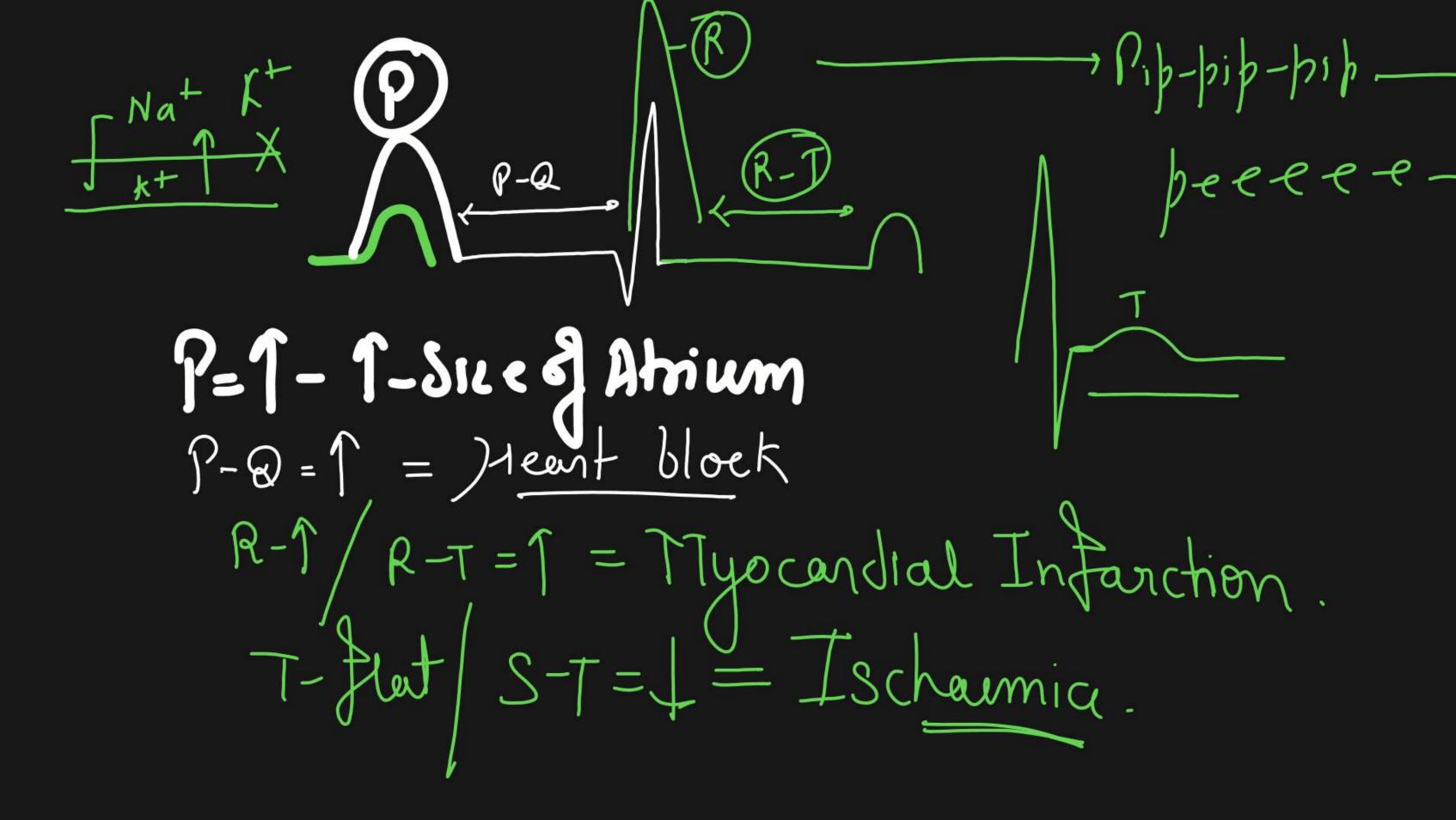


SUMMARY PART- 2 HEART









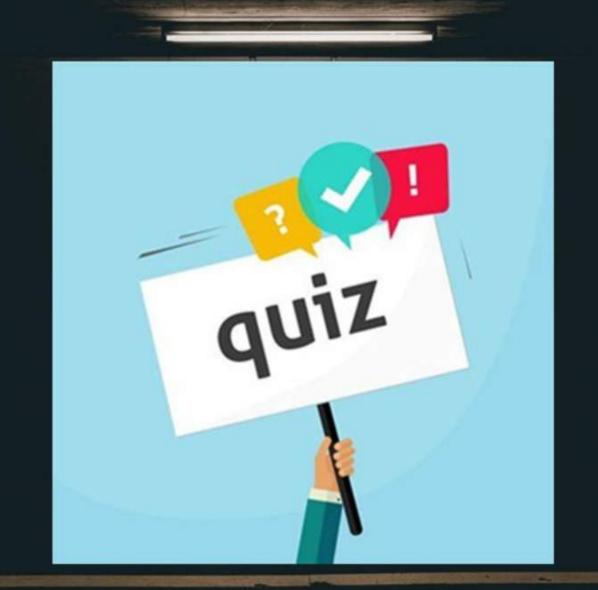


Doubts

and Discussion





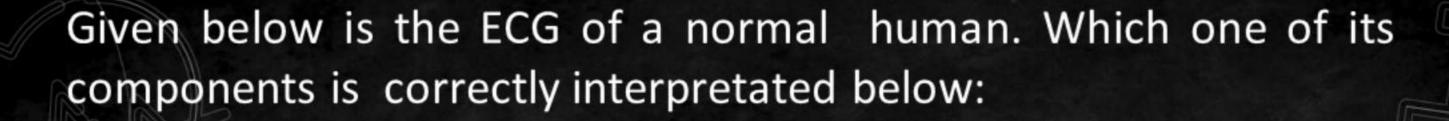


If cardiac supply of vagus nerve is cut then:

- (A) Rate of heart beat increases.
- (B) Rate of heart beat decreases.
- (C) There is no change in heartbeat.
- (D) Heart stops beating.





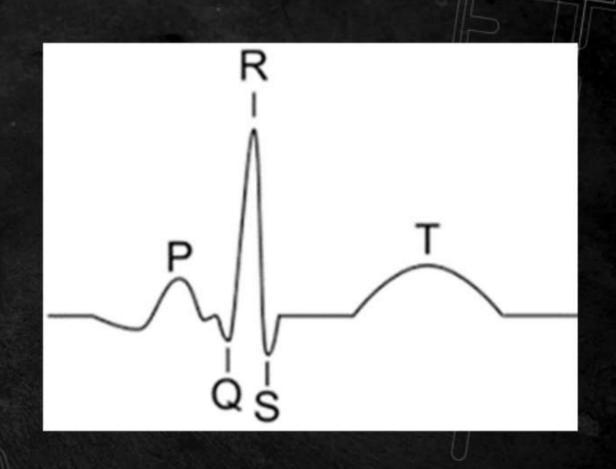


(A) Peak P and R together- systolic and diastolic pressures

(8) Peak P – initiation of left atrial contraction only

(e) Complex QRS- one complete pulse

Peak T- initiation of total cardiac contraction





Bundle of His is a network of

- (A) Muscle fibres distributed throughout the heart walls
- (B) Nerve fibers found throughout the heart
- (C) Nerve fibers distributed in ventricles
- (D) Muscle fibres found only in the ventricle wall





Cardiac output is defined as the amount of blood:

(A) Pumped by both ventricles per second

Received in heart per minute

Pumped by each ventricle per minute

(D) Pumped by left atrium per minute



(B)



Glucose is carried from digestive tract to liver by

(A) Hepatic artery

Hepatic portal vein

(C) Pulmonary vein

(D) None of the above





(B)

What among the following is not detected by ECG?

(A) Heart block

(B) Valvular defects

(C) Myocardial infection

(D) Arrhythmia







How many cardiac cycles are performed per minute in humans?

(A) 1 (C) 27

(B) 12

-(D) (72)





If one L of blood is drawn out of 5 L from the body of man, how much blood would be left by the next day?

(A) 5 L

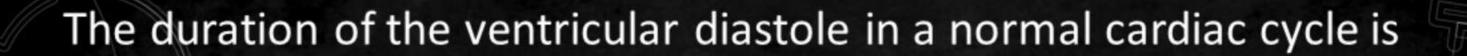
(C) 4 L

(B) 4.5 L

(D) 3 L







(A) 0.3 second (B) 0.5 second

(C) 0.4 second (D) 0.7 second





The course of blood from the heart to the lungs and back to the heart is called

- (A) Systemic circulation
- (B) Pulmonary circulation
 - (C) Single circulation
 - (D) Double circulation



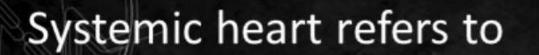




- (A) 190/110 mm Hg may harm vital organs like brain and kidney
- X(B) 130/90 mm Hg is considered high and requires treatment
- X(C) 100/55 mm Hg is considered an ideal blood pressure
- X(D) 105/50 mm Hg makes one very active







- (A) The heart that contracts under stimulation from nervous system
- (B) Left auricle and left ventricle in higher vertebrates
- (C) Entire heart in lower vertebrates
- (D) The two ventricles together in humans







The cardiac pacemaker in a patient fails to function normally. The doctors find that an artificial pacemaker is to be grafted in him. It is likely that it will be grafted at the site of

- (A)Atrioventricular bundle
- (B) Purkinje system
- (C) Sinoatrial node
- (D) Atrioventricular node



The heart sound 'dup' is produced when

- (A) Mitral valve is closed
- (B) Semilunar valves at the base of aorta get closed
- (C) Tricuspid valve is opened
- (D) Mitral valve is opened







